

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in this application.

1. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a 10 to 350 g/m² zinc alloy plating layer ~~composed~~ consisting of 4 to 10% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti and ~~the a~~ balance of Zn and unavoidable impurities, the plating layer having a metal structure in which one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound composed of TiAl₃ in one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase],

wherein the Ti-Al base intermetallic compound contained in an [Al phase] in the plating layer is present in a Zn-Al eutectoid reaction structure in which Zn phases are condensed, and the size of a dendrite in an [Al phase] in the plating layer is up to 500µm.

2. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a 10 to 350 g/m² zinc alloy plating layer ~~composed~~ consisting of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and ~~the a~~ balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg₂Si phase], an [Al phase], a [Zn₂Mg phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound ~~composed~~ consisting of Ti (Al_{1-x} Si_x)₃ (wherein X = 0 to 0.5) in one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase],

wherein the Ti-Al base intermetallic compound contained in an [Al phase] in the plating layer is present in a Zn-Al eutectoid reaction structure in which Zn phases are condensed, and the size of a dendrite in an [Al phase] in the plating layer is up to 500µm.

Claims 3 to 9: (canceled).

10. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer ~~composed~~ consisting of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and ~~the a~~ balance of Zn and

unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg₂Si phase], an [Al phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound ~~composed~~ consisting of Ti (Al_{1-x} Si_x)₃ (wherein X = 0 to 0.5) in one or more of the [Al phase] and [Zn phase],

wherein the Ti-Al base intermetallic compound contained in an [Al phase] in the plating layer is present in a Zn-Al eutectoid reaction structure in which Zn phases are condensed.

11. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer ~~composed~~ consisting of 4 to 10% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti and ~~the~~ a balance of Zn and unavoidable impurities, the plating layer having a metal structure in which one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound ~~composed~~ consisting of TiAl₃ in one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase],

wherein the size of a dendrite in an [Al phase] in the plating layer is up to 500µm.

12. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer ~~composed~~ consisting of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and ~~the~~ a balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg₂Si phase], an [Al phase], a [Zn₂Mg phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound ~~composed~~ consisting of Ti (Al_{1-x} Si_x)₃ (wherein X = 0 to 0.5) in one or more of the [Al phase], [Zn₂Mg phase] and [Zn phase],

wherein the size of a dendrite in an [Al phase] in the plating layer is up to 500µm.

13. (Currently Amended) A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer ~~composed~~ consisting of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and ~~the~~ a balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg₂Si phase], an [Al phase] and a [Zn phase] are present in a mixture in the

matrix of an [Al/Zn/Zn₂Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound ~~composed~~ consisting of Ti (Al_{1-x} Si_x)₃ (wherein X = 0 to 0.5) in one or more of the [Al phase] and [Zn phase],

wherein the size of a dendrite in an [Al phase] in the plating layer is up to 500 μm .